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<p>(21) International Application Number: PCT/US00/06205 (22) International Filing Date: 9 March 2000 (09.03.00) (30) Priority Data: 60/123,464 9 March 1999 (09.03.99) US <i>09 Nov 00</i> (71)(72) Applicant and Inventor: EISINGER, Lee [US/US]; 463 Locust Street, Akron, OH 44307 (US). (74) Agent: SKERJOTIS, John, M.; 4421 Ranchwood Spur, Akron, OH 44333-1343 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>

(54) Title: APPLICATION OF TEXTURED OR PATTERNED SURFACES TO A PROTOTYPE

(57) Abstract

Rapid prototyping technologies are being used to save time and money. One such method of producing a rapid prototype is that known as stereolithography. This method creates a tangible 3-D object from a CAD drawing by directing ultraviolet laser radiation onto a vat of polymer resin. The invention disclosed pertains to application of a texture or pattern to a prototype part produced from such method above. The texture or pattern is applied to the surface of the prototype part. The method involves using a photo-sensitive resist that is sprayed onto the surface of the item until a predetermined thickness is achieved. Portions of the surface are pre-selected to provide a texture or pattern. Other portions of the surface are masked or otherwise protected from exposure to a radiation source. After exposure to a light source, the unhardened photo resist is removed, leaving the exposed photo resist on the surface forming the pre-selected pattern or texture.

APPLICATION OF TEXTURED  
OR PATTERNED SURFACES

